GenCore version 5.1.4_p5_4578

OM nucleic - nucleic search, using sw model

Run on: March 11, 2003, 00:05:17 ; Search time 40.1318 Seconds
(without alignments)
236.894 Million cell updates/sec

Title: US-09-913-524-34
Perfect score: 31
Sequence: 1 atcattgctccctctggctatcatgccaact 31

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	31	100.0	1633	1	US-08-197-792-42	Sequence 42, Appl
	2	31	100.0	1633	1	US-08-459-850-42	Sequence 42, Appl
	3	31	100.0	1633	1	US-08-459-214-42	Sequence 42, Appl
	4	23	74.2	3588	1	US-08-197-792-32	Sequence 32, Appl
	5	23	74.2	3588	1	US-08-459-850-32	Sequence 32, Appl
	6	23	74.2	3588	1	US-08-459-214-32	Sequence 32, Appl
	7	21.4	69.0	1667	1	US-08-455-550-1	Sequence 1, Appli
	8	19.8	63.9	400	1	US-07-764-731B-5	Sequence 5, Appli
	9	19.8	63.9	406	1	US-08-163-877-7	Sequence 7, Appli
	10	19.8	63.9	406	1	US-08-360-914B-7	Sequence 7, Appli
	11	19.8	63.9	406	1	US-08-741-589A-7	Sequence 7, Appli
	12	19.8	63.9	406	5	PCT-US94-13181-7	Sequence 7, Appli
	13	19.8	63.9	497	4	US-08-868-452-43	Sequence 43, Appl
	14	19.8	63.9	894	1	US-07-764-731B-3	Sequence 3, Appli
	15	19.8	63.9	894	6	5187076-3	Patent No. 5187076
	16	19.8	63.9	2923	1	US-08-377-292-6	Sequence 6, Appli
	17	19.8	63.9	2923	2	US-07-989-847-7	Sequence 7, Appli
	18	19.8	63.9	2923	4	US-08-469-411-7	Sequence 7, Appli
	19	19.8	63.9	2923	6	5187076-5	Patent No. 5187076
	20	19	61.3	5741	1	US-07-706-699-4	Sequence 4, Appli
	21	19	61.3	5741	1	US-07-998-931-4	Sequence 4, Appli
	22	18.8	60.6	99	1	US-07-967-262-1	Sequence 1, Appli
	23	18.8	60.6	509	4	US-09-385-982-43	Sequence 43, Appl
c	24	18.8	60.6	1164	4	US-09-134-001C-2199	Sequence 2199, Ap
c	25	18.8	60.6	1628	3	US-09-147-522-3	Sequence 3, Appli
	26	18.8	60.6	3315	4	US-09-221-017B-76	Sequence 76, Appl
c	27	18.8	60.6	5000	3	US-09-147-522-5	Sequence 5, Appli
c	28	18.6	60.0	111282	4	US-09-754-250-3	Sequence 3, Appli
c	29	18.6	60.0	112132	4	US-09-741-150-3	Sequence 3, Appli
	30	18.4	59.4	1938	4	US-09-232-200-29	Sequence 29, Appl
	31	18.4	59.4	1938	4	US-09-232-197-29	Sequence 29, Appl
	32	18.4	59.4	1938	4	US-09-232-201-29	Sequence 29, Appl
	33	18.4	59.4	3217	4	US-09-232-200-64	Sequence 64, Appl
	34	18.4	59.4	3217	4	US-09-232-197-64	Sequence 64, Appl
	35	18.4	59.4	3217	4	US-09-232-201-64	Sequence 64, Appl
	36	18.4	59.4	9046	1	US-08-227-536-1	Sequence 1, Appli
	37	18.4	59.4	9046	5	PCT-US95-04682-1	Sequence 1, Appli
	38	18.2	58.7	337	4	US-08-868-452-29	Sequence 29, Appl
	39	18.2	58.7	339	1	US-08-470-837-29	Sequence 29, Appl
	40	18.2	58.7	1524	1	US-08-197-792-34	Sequence 34, Appl
	41	18.2	58.7	1524	1	US-08-459-850-34	Sequence 34, Appl
	42	18.2	58.7	1524	1	US-08-459-214-34	Sequence 34, Appl
	43	18.2	58.7	1873	1	US-07-841-646-24	Sequence 24, Appl
	44	18.2	58.7	1873	1	US-07-901-703-8	Sequence 8, Appli
	45	18.2	58.7	1873	1	US-08-147-023-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-08-197-792-42
; Sequence 42, Application US/08197792
; Patent No. 5525488
; GENERAL INFORMATION:
; APPLICANT: Anthony J. Mason
; APPLICANT: Peter H. Seeburg
; TITLE OF INVENTION: Nucleic Acid Encoding the Alpha or Beta Chains of Inhibi
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/197,792
; FILING DATE: 16-FEB-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/958414
; FILING DATE: 08-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/744207
; FILING DATE: 12-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/215466
; FILING DATE: 05-JUL-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 06/906729
; FILING DATE: 31-DEC-1986
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 06/827710
; FILING DATE: 07-FEB-1986
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 06/783910
; FILING DATE: 03-OCT-1985
; ATTORNEY/AGENT INFORMATION:
; NAME: Hasak, Janet E.
; REGISTRATION NUMBER: 28,616
; REFERENCE/DOCKET NUMBER: 297P2D4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-1896
; TELEFAX: 415/952-9881

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;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1633 bases
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-197-792-42

  Query Match             100.0%;  Score 31;  DB 1;  Length 1633;
  Best Local Similarity   100.0%;  Pred. No. 7.6e-05;
  Matches   31;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          |||||||||||||||||||||||||||||||
Db   1251 ATCATTGCTCCCTCTGGCTATCATGCCAACT 1281


RESULT 2
US-08-459-850-42
; Sequence 42, Application US/08459850
; Patent No. 5665568
;  GENERAL INFORMATION:
;    APPLICANT:  Anthony J. Mason
;    APPLICANT:  Peter H. Seeburg
;    TITLE OF INVENTION:  Nucleic Acid Encoding the Alpha or
;    TITLE OF INVENTION:  Beta Chains of Inhibin and Method for Synthesizing Polypeptide
;    TITLE OF INVENTION:  Using such Nucleic Acid
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,850
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/197792
;      FILING DATE:  17-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/958414
;      FILING DATE:  08-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/744207
;      FILING DATE:  12-AUG-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/215466
;      FILING DATE:  05-JUL-1988
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/906729
;      FILING DATE:  31-DEC-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/827710
;      FILING DATE:  07-FEB-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/783910
;      FILING DATE:  03-OCT-1985
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  297P2D5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
```

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;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1633 bases
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-459-850-42

  Query Match             100.0%;  Score 31;  DB 1;  Length 1633;
  Best Local Similarity   100.0%;  Pred. No. 7.6e-05;
  Matches   31;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          |||||||||||||||||||||||||||||||
Db   1251 ATCATTGCTCCCTCTGGCTATCATGCCAACT 1281


RESULT 3
US-08-459-214-42
; Sequence 42, Application US/08459214
; Patent No. 5716810
;  GENERAL INFORMATION:
;    APPLICANT:  Anthony J. Mason
;    APPLICANT:  Peter H. Seeburg
;    TITLE OF INVENTION:  Nucleic Acid Encoding the Alpha or
;    TITLE OF INVENTION:  Beta Chains of Inhibin and Method for Synthesizing Polype
;    TITLE OF INVENTION:  Using such Nucleic Acid
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,214
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/197792
;      FILING DATE:  17-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/958414
;      FILING DATE:  08-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/744207
;      FILING DATE:  12-AUG-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/215466
;      FILING DATE:  05-JUL-1988
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/906729
;      FILING DATE:  31-DEC-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/827710
;      FILING DATE:  07-FEB-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/783910
;      FILING DATE:  03-OCT-1985
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  297P2D6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
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;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1633 bases
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-459-214-42

  Query Match             100.0%;  Score 31;  DB 1;  Length 1633;
  Best Local Similarity   100.0%;  Pred. No. 7.6e-05;
  Matches   31;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
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Db   1251 ATCATTGCTCCCTCTGGCTATCATGCCAACT 1281


RESULT 4
US-08-197-792-32
; Sequence 32, Application US/08197792
; Patent No. 5525488
;  GENERAL INFORMATION:
;    APPLICANT:  Anthony J. Mason
;    APPLICANT:  Peter H. Seeburg
;    TITLE OF INVENTION:  Nucleic Acid Encoding the Alpha or Beta Chains of Inhibin and
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/197,792
;      FILING DATE:  16-FEB-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/958414
;      FILING DATE:  08-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/744207
;      FILING DATE:  12-AUG-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/215466
;      FILING DATE:  05-JUL-1988
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/906729
;      FILING DATE:  31-DEC-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/827710
;      FILING DATE:  07-FEB-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/783910
;      FILING DATE:  03-OCT-1985
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  297P2D4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  32:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3588 bases
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-197-792-32

  Query Match             74.2%;  Score 23;  DB 1;  Length 3588;
  Best Local Similarity   83.9%;  Pred. No. 0.3;
  Matches   26;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
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Db   1042 ATCATCGCTCCGTCCGGCTACCACGCCAACT 1072


RESULT 5
US-08-459-850-32
; Sequence 32, Application US/08459850
; Patent No. 5665568
;  GENERAL INFORMATION:
;    APPLICANT:  Anthony J. Mason
;    APPLICANT:  Peter H. Seeburg
;    TITLE OF INVENTION:  Nucleic Acid Encoding the Alpha or
;    TITLE OF INVENTION:  Beta Chains of Inhibin and Method for Synthesizing Polype
;    TITLE OF INVENTION:  Using such Nucleic Acid
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,850
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/197792
;      FILING DATE:  17-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/958414
;      FILING DATE:  08-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/744207
;      FILING DATE:  12-AUG-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/215466
;      FILING DATE:  05-JUL-1988
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/906729
;      FILING DATE:  31-DEC-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/827710
;      FILING DATE:  07-FEB-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/783910
;      FILING DATE:  03-OCT-1985
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  297P2D5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  32:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3588 bases
;      TYPE:  nucleic acid
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;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-459-850-32

  Query Match             74.2%;  Score 23;  DB 1;  Length 3588;
  Best Local Similarity   83.9%;  Pred. No. 0.3;
  Matches   26;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
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Db    1042 ATCATCGCTCCGTCCGGCTACCACGCCAACT 1072


RESULT 6
US-08-459-214-32
; Sequence 32, Application US/08459214
; Patent No. 5716810
;  GENERAL INFORMATION:
;    APPLICANT:  Anthony J. Mason
;    APPLICANT:  Peter H. Seeburg
;    TITLE OF INVENTION:  Nucleic Acid Encoding the Alpha or
;    TITLE OF INVENTION:  Beta Chains of Inhibin and Method for Synthesizing Polypeptide
;    TITLE OF INVENTION:  Using such Nucleic Acid
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,214
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/197792
;      FILING DATE:  17-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/958414
;      FILING DATE:  08-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/744207
;      FILING DATE:  12-AUG-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/215466
;      FILING DATE:  05-JUL-1988
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/906729
;      FILING DATE:  31-DEC-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/827710
;      FILING DATE:  07-FEB-1986
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  06/783910
;      FILING DATE:  03-OCT-1985
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  297P2D6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  32:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3588 bases
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-459-214-32

  Query Match             74.2%;  Score 23;  DB 1;  Length 3588;
  Best Local Similarity   83.9%;  Pred. No. 0.3;
  Matches   26;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
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Db    1042 ATCATCGCTCCGTCCGGCTACCACGCCAACT 1072


RESULT 7
US-08-455-550-1
; Sequence 1, Application US/08455550
; Patent No. 5670338
;  GENERAL INFORMATION:
;    APPLICANT:  MURAKAMI, KAZUO
;    APPLICANT:  UENO, NAOTO
;    APPLICANT:  KATO, YUKIO
;    TITLE OF INVENTION:  XENOPUS LAEVIS BONE MORPHOGENETIC PROTEINS AND USE THE
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dike, Bronstein, Roberts & Cushman
;      STREET:  130 Water Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/455,550
;      FILING DATE:  31-MAY-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/056,564
;      FILING DATE:  30-APR-1993
;      APPLICATION NUMBER:  07/577,892
;      FILING DATE:  05-SEP-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Eisenstein, Ronald I
;      REGISTRATION NUMBER:  30628
;      REFERENCE/DOCKET NUMBER:  40302-PWC-DIV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-523-3400
;      TELEFAX:  617-523-6440
;      TELEX:  200291
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1667 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:
;    ORIGINAL SOURCE:
US-08-455-550-1

  Query Match             69.0%;  Score 21.4;  DB 1;  Length 1667;
  Best Local Similarity   80.6%;  Pred. No. 1.3;
  Matches   25;  Conservative    0;  Mismatches    6;  Indels    0;  Gaps    0;

Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
           ||||| || ||  ||||||| |||||||| |
Db     777 ATCATAGCACCTCCTGGCTACCATGCCAATT 807
```

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RESULT 8
US-07-764-731B-5
; Sequence 5, Application US/07764731B
; Patent No. 5366875
;  GENERAL INFORMATION:
;    APPLICANT:  Rosen, Vicki A.
;    APPLICANT:  Wang, Elizabeth A.
;    APPLICANT:  Wozney, John M.
;    TITLE OF INVENTION:  Methods for Producing BMP-7 Proteins
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Legal Affairs, Genetics Institute, Inc.
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/764,731B
;      FILING DATE:  19910924
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kapinos, Ellen J.
;      REGISTRATION NUMBER:  32,245
;      REFERENCE/DOCKET NUMBER:  GI5159B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-876-1170
;      TELEFAX:  617-876-5851
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 base pairs
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  double
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  cDNA to mRNA
;    HYPOTHETICAL:  NO
;    FRAGMENT TYPE:  C-terminal
;    ORIGINAL SOURCE:
;      ORGANISM:  Homo sapiens
;      CELL LINE:  U2-OS Osteosarcoma
;    IMMEDIATE SOURCE:
;      LIBRARY:  U2-OS human osteosarcoma cDNA library
;      CLONE:  U2-7
;    POSITION IN GENOME:
;      UNITS:  bp
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..399
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  1..400
;    FEATURE:
;      NAME/KEY:  mRNA
;      LOCATION:  1..400
US-07-764-731B-5

  Query Match             63.9%;  Score 19.8;  DB 1;  Length 400;
  Best Local Similarity   77.4%;  Pred. No. 5;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          ||||||||| |||   ||||||  |||||| |
Db    145 ATCATTGCACCCAAGGGCTATGCTGCCAATT 175


RESULT 9
US-08-163-877-7
; Sequence 7, Application US/08163877
; Patent No. 5399677
;  GENERAL INFORMATION:
;    APPLICANT:  McCoy, John
;    APPLICANT:  Murray, Beth
;    APPLICANT:  Wolfman, Neil
;    TITLE OF INVENTION:  MUTANTS OF BONE MORPHOGENIC PROTEINS
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute, Inc - Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/163,877
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lazar, Steven R.
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  GI 5219
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617 876-1170 x 8260
;      TELEFAX:  617 876-5851
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  406 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    ORIGINAL SOURCE:
;      ORGANISM:  bmp-6
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..396
US-08-163-877-7

  Query Match             63.9%;  Score 19.8;  DB 1;  Length 406;
  Best Local Similarity   77.4%;  Pred. No. 5;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          ||||||||| |||   ||||||  |||||| |
Db    145 ATCATTGCACCCAAGGGCTATGCTGCCAATT 175


RESULT 10
US-08-360-914B-7
; Sequence 7, Application US/08360914B
; Patent No. 5756308
;  GENERAL INFORMATION:
;    APPLICANT:  Neil M. WOLFMAN and John McCOY
;    TITLE OF INVENTION:  MUTANTS OF BONE MORPHOGENIC PROTEINS
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute, Inc - Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/360,914B
;       FILING DATE:
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/163,877
;       FILING DATE:  December 7, 1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Lazar, Steven R.
;       REGISTRATION NUMBER:  32,618
;       REFERENCE/DOCKET NUMBER:  GI 5219B
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617 498-8260
;       TELEFAX:  617 876-5851
;   INFORMATION FOR SEQ ID NO:  7:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  406 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA
;     ORIGINAL SOURCE:
;       ORGANISM:  bmp-6
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  1..396
US-08-360-914B-7

  Query Match             63.9%;  Score 19.8;  DB 1;  Length 406;
  Best Local Similarity   77.4%;  Pred. No. 5;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
           ||||||||| |||   ||||||  |||||| |
Db     145 ATCATTGCACCCAAGGGCTATGCTGCCAATT 175


RESULT 11
US-08-741-589A-7
; Sequence 7, Application US/08741589A
; Patent No. 5804416
;  GENERAL INFORMATION:
;    APPLICANT:  Neil M. WOLFMAN and John McCOY
;    TITLE OF INVENTION:  MUTANTS OF BONE MORPHOGENIC PROTEINS
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute, Inc - Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/741,589A
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/163,877
;      FILING DATE:  December 7, 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lazar, Steven R.
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  GI 5219B-DIV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617 498-8260
;      TELEFAX:  617 876-5851
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  406 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA
;    ORIGINAL SOURCE:
;      ORGANISM:  bmp-6
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..396
US-08-741-589A-7

  Query Match             63.9%;  Score 19.8;  DB 1;  Length 406;
  Best Local Similarity   77.4%;  Pred. No. 5;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
           ||||||||| |||   ||||||  |||||| |
Db     145 ATCATTGCACCCAAGGGCTATGCTGCCAATT 175


RESULT 12
PCT-US94-13181-7
; Sequence 7, Application PC/TUS9413181
;  GENERAL INFORMATION:
;    APPLICANT:  GENETICS INSTITUTE, INC.
;    TITLE OF INVENTION:  MUTANTS OF BONE MORPHOGENIC PROTEINS
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute, Inc - Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/13181
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/163,877
;      FILING DATE:  December 7, 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lazar, Steven R.
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  GI 5219-PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617 498-8260
;      TELEFAX:  617 876-5851
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  406 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA
;    ORIGINAL SOURCE:
;      ORGANISM:  bmp-6
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..396
PCT-US94-13181-7

  Query Match             63.9%;  Score 19.8;  DB 5;  Length 406;
  Best Local Similarity   77.4%;  Pred. No. 5;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;
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Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          ||||||||| |||   ||||||  |||||| |
Db    145 ATCATTGCACCCAAGGGCTATGCTGCCAATT 175


RESULT 13
US-08-868-452-43
; Sequence 43, Application US/08868452C
; Patent No. 6352972
; GENERAL INFORMATION:
;  APPLICANT: Marcel E. Nimni
;  APPLICANT: Frederick L. Hall
;  APPLICANT: Lingtao Wu
;  APPLICANT: Bo Han
;  APPLICANT: Edwin Shors
;  TITLE OF INVENTION: BONE MORPHOGENETIC PROTEINS AND THEIR
;  TITLE OF INVENTION: USE IN BONE GROWTH
;  FILE REFERENCE: 17972-11
;  CURRENT APPLICATION NUMBER: US/08/868,452C
;  CURRENT FILING DATE: 1997-06-03
;  NUMBER OF SEQ ID NOS: 51
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
;   LENGTH: 497
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)...(417)
US-08-868-452-43

  Query Match             63.9%;  Score 19.8;  DB 4;  Length 497;
  Best Local Similarity   77.4%;  Pred. No. 5.2;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          ||||||||| |||   ||||||  |||||| |
Db    166 ATCATTGCACCCAAGGGCTATGCTGCCAATT 196


RESULT 14
US-07-764-731B-3
; Sequence 3, Application US/07764731B
; Patent No. 5366875
;  GENERAL INFORMATION:
;    APPLICANT:  Rosen, Vicki A.
;    APPLICANT:  Wang, Elizabeth A.
;    APPLICANT:  Wozney, John M.
;    TITLE OF INVENTION:  Methods for Producing BMP-7 Proteins
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Legal Affairs, Genetics Institute, Inc.
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/764,731B
;      FILING DATE:  19910924
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kapinos, Ellen J.
;      REGISTRATION NUMBER:  32,245
;      REFERENCE/DOCKET NUMBER:  GI5159B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-876-1170
;      TELEFAX:  617-876-5851
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  894 base pairs
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  double
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  cDNA to mRNA
;    HYPOTHETICAL:  NO
;    FRAGMENT TYPE:  C-terminal
;    ORIGINAL SOURCE:
;      ORGANISM:  Bos taurus
;      TISSUE TYPE:  Fetal long bone
;    IMMEDIATE SOURCE:
;      LIBRARY:  Bovine bone cDNA library
;      CLONE:  HEL16
;    POSITION IN GENOME:
;      UNITS:  bp
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..669
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  250..666
;    FEATURE:
;      NAME/KEY:  mRNA
;      LOCATION:  1..894
US-07-764-731B-3

  Query Match             63.9%;  Score 19.8;  DB 1;  Length 894;
  Best Local Similarity   77.4%;  Pred. No. 5.9;
  Matches   24;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy      1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
          ||||||||| |||   |||||   ||||||||
Db    415 ATCATTGCCCCCAAGGGCTACGCTGCCAACT 445


RESULT 15
5187076-3
;Patent No. 5187076
;    APPLICANT: WOZNEY, JOHN M.;WANG, ELIZABETH A.;ROSEN,VICKI A.;
;CELESTE, ANTHONY J.
;    TITLE OF INVENTION: DNA SEQUENCES ENCODING BMP-6 PROTEINS
;    NUMBER OF SEQUENCES: 16
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/490,033
;      FILING DATE: 07-MAR-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 370,544
;      FILING DATE: 23-JUN-1989
;      APPLICATION NUMBER: 347,559
;      FILING DATE: 04-MAY-1989
;      APPLICATION NUMBER: 329,610
;      FILING DATE: 28-MAR-1989
;      APPLICATION NUMBER: 179,100
;      FILING DATE: 08-APR-1988
;      APPLICATION NUMBER: 179,101
;      FILING DATE: 08-APR-1988
;      APPLICATION NUMBER: 179,197
;      FILING DATE: 08-APR-1988
;      APPLICATION NUMBER: 28,285
;      FILING DATE: 20-MAR-1987
;      APPLICATION NUMBER: 31,346
;      FILING DATE: 26-MAR-1987
;      APPLICATION NUMBER: 943,322
;      FILING DATE: 17-DEC-1986
;      APPLICATION NUMBER: 880,776
;      FILING DATE: 01-JUL-1986
;SEQ ID NO:3:
;      LENGTH: 894
5187076-3

  Query Match             63.9%;  Score 19.8;  DB 6;  Length 894;
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Best Local Similarity 77.4%; Pred. No. 5.9;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Qy       1 ATCATTGCTCCCTCTGGCTATCATGCCAACT 31
           ||||||||  |||   |||||   ||||||||
Db     415 ATCATTGCCCCCAAGGGCTACGCTGCCAACT 445
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Search completed: March 11, 2003, 10:29:08
Job time : 42.1318 secs